

MATERIAL SAFETY DATA SHEET

Page 1/5

according to 91/155 EEC

Printing date 06.02.2007

Reviewed on 06.02.2007




1 Identification of substance

- **Product details**
- **Trade name** PENTOSIN CHF 7.1
- **Article number:** 1404 900
- **Application of the substance / the preparation** Central Hydraulic Fluid
- **Manufacturer/Supplier:**
 Deutsche Pentosin-Werke GmbH
 Industriestraße 39-43
 D-22880 Wedel
 Germany
 Phone ++49 4103 9134-0
 Fax ++49 4103 9134-71
- **Informing department:** Department QM-UM-Safety
- **Emergency information:** +49 / (0)4103 / 91 34-0

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture consisting of the following components.

· Dangerous components:

CAS: 64742-46-7 EINECS: 265-148-2	Distillates (petroleum), hydrotreated middle	 Xn; R 65	25-50%
CAS: 68649-42-3 EINECS: 272-028-3	Zink-dialkyldithiophosphat	 Xi,  N; R 38-41-51/53	< 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
 The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system**
 The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **General information** No special measures required.
- **After inhaling** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is generally no skin irritant.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Call a doctor immediately.

GB

(Contd. on page 2)

MATERIAL SAFETY DATA SHEET

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Page 2/5

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(Contd. of page 1)

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class 10** (VCI Germany)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Personal protective equipment**
- **General protective and hygienic measures** Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Use breathing protection only when aerosol or haze is formed.
- **Protection of hands:**
Oil-resistant gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Protective goggles recommended during refilling.

GB

(Contd. on page 3)

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(Contd. of page 2)

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Green
Smell:	Characteristic

· Change in condition

Melting point/Melting range: -54°C
Boiling point/Boiling range: Not determined

· **Flash point:** 130°C (ISO 2592)

· **Ignition temperature:** 245°C (DIN 51794)

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

· Critical values for explosion:

Lower:	0.6 Vol %
Upper:	6.5 Vol %

· **Steam pressure at 20°C:** < 0.1 hPa

· **Density at 20°C** 0.845 g/cm³ (ISO 12185)

· Solubility in / Miscibility with

Water: Insoluble

· **pH-value:** Not applicable

· Viscosity:

kinematic at 40°C: 18 mm²/s (ISO 3104)

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** Not determined
- **Additional toxicological information:**
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

GB

(Contd. on page 4)

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(Contd. of page 3)

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
 - **European waste catalogue**
- | | |
|----------|---|
| 13 00 00 | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |
| 13 01 00 | waste hydraulic oils |
| 13 01 10 | mineral based non-chlorinated hydraulic oils |
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Maritime transport IMDG/GGVSea:**
- **Marine pollutant:** No
- **Transport/Additional information:** No dangerous goods in accordance with the above orders

15 Regulatory information

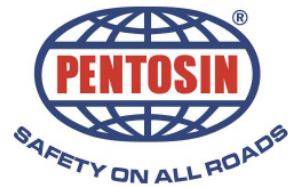
- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
- **National regulations:**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.

(Contd. on page 5)



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Page 5/5

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(Contd. of page 4)

- *Department issuing data specification sheet: QM-UM-Safety*
- *Contact: Dr.G.Lukaschek*
- ** Data compared to the previous version altered.*

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